

XPLOT**PURPOSE**

An internal variable into which the horizontal coordinates of the most recent plot are stored.

DESCRIPTION

Whenever DATAPLOT generates a plot, it saves the horizontal and vertical coordinates of each point plotted in the internal variables XPLOT and YPLOT. For 3d plots, it stores the second horizontal axis coordinates in the variable X2PLOT. The coordinates are saved in the units of the data, not in the DATAPLOT 0 to 100 coordinates. These variables can be used in any way that a user created variable can.

SYNTAX

None

EXAMPLES

```
BOOTSTRAP PLOT Y
LET Y2 = YPLOT
HISTOGRAM Y2
. Generate a frequency table
HISTOGRAM Y
SET WRITE DECIMALS 3
PRINT XPLOT YPLOT
. Generate a table of medians
MEDIAN PLOT Y GROUP
SET WRITE DECIMALS 3
PRINT XPLOT YPLOT
. Generate a spectral density plot from a periodogram
PERIODGRAM Y
LET A = VARIANCE Y
LET Y2 = YPLOT/A
LET X = XPLOT
TITLE SPECTRAL DENSITY PLOT
PLOT Y2 X
```

DEFAULT

None

SYNONYMS

None

RELATED COMMANDS

TAGPLOT	=	An internal variable that contains the trace identifier of the points from the most recent plot.
YPLOT	=	An internal variable that contains the vertical coordinates from the most recent plot.
X2PLOT	=	An internal variable that contains the coordinates from the second horizontal axis from the most recent 3d plot.
PLOT	=	Generate a data of function plot.

APPLICATIONS

Plotting

IMPLEMENTATION DATE

Pre-1987

PROGRAM 1

. Generate a Tukey mean-difference plot

SKIP 25

READ AUTO83B.DAT Y1 Y2

DELETE Y2 SUBSET Y2 < 0

QUANTILE-QUANTILE PLOT Y1 Y2

LET YMEAN = (YPILOT+XPLOT)/2

LET YDIFF = YPILOT - XPLOT

LET AMIN = MINIMUM YMEAN

LET AMAX = MAXIMUM YDIFF

LET XZERO = DATA AMIN AMAX

LET YZERO = DATA 0 0

LINE BLANK SOLID

CHARACTER CIRCLE BLANK

CHARACTER SIZE 1.0

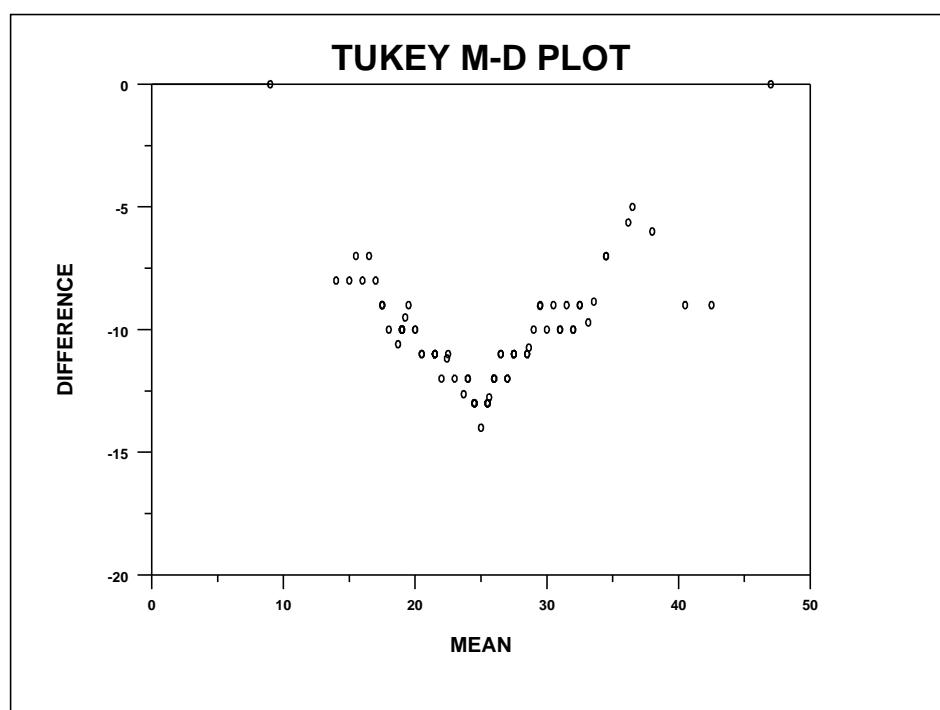
TITLE TUKEY M-D PLOT

X1LABEL MEAN

Y1LABEL DIFFERENCE

PLOT YDIFF YMEAN AND

PLOT YZERO XZERO



PROGRAM 2

```
. THIS DEMONSTRATES A RELATIVELY IMPORTANT SPECTRAL ANALYSIS EXAMPLE  
SKIP 25  
READ LEW.DAT Y  
  
MULTIPLY 2 1; MULTIPLY CORNER COORDINATES 0 0 100 100  
SPIKE ON  
LINE BLANK  
TITLE AUTOMATIC  
X1LABEL FREQUENCY  
SPECTRUM Y  
  
LET PERIOD = 1/XPLOT  
X1LABEL PERIOD  
PLOT YPLOT PERIOD
```

